

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Attorney Docket No.: P-9902 MG
Applicant(s): ZOLOTOREV ET AL
Date Filed: 12/6/99

Serial No.: 09/445,386
Title: PAYMENT METHOD & APPARATUS THEREFORE

U.S. PATENT DOCUMENTS

| Exmner Initial | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|----------------|---|-----------------|------------|-----------------|-------|-----------|------------------------------|
| D | A | 6,003,028* | 12/14/1999 | Koenig | | | |
| | B | 5,999,625* | 12/7/1999 | Bellare et al. | | | |
| | C | 5,926,548* | 7/20/1999 | Okamoto | | | |
| | D | 5,920,629* | 7/6/1999 | Rosen | | | |
| | E | 5,915,022* | 6/22/1999 | Robinson et al. | | | |
| | F | 5,909,492* | 6/1/1999 | Payne et al. | | | |
| | G | 5,905,976* | 5/18/1999 | Mjolsnes et al. | | | |
| | H | 5,903,895* | 5/11/1999 | Hoffman et al. | | | APR 08 2004 |
| | I | 5,903,880* | 5/11/1999 | Biffar | | | |
| | J | 5,901,229* | 5/4/1999 | Fujisaki et al. | | | |
| | K | 5,983,207* | 11/9/1999 | Turk et al. | | | |
| | L | 5,982,506* | 11/9/1999 | Kara | | | |
| | M | 5,910,989* | 6/8/1999 | Naccache | | | |
| | N | 5,905,976* | 5/18/1999 | Mjolsnes et al. | | | |
| | O | 5,901,229* | 5/4/1999 | Fujisaki et al. | | | |
| | P | 5,898,154* | 4/27/1999 | Rosen | | | |
| | Q | 5,897,663* | 4/27/1999 | Nolan | | | |
| | R | 5,889,863* | 3/30/1999 | Weber | | | |
| | S | 5,889,862* | 3/30/1999 | Ohta et al. | | | |
| | T | 5,884,272* | 3/16/1999 | Walker et al. | | | |
| | U | 5,884,270* | 3/16/1999 | Walker et al. | | | |
| | V | 5,878,143* | 3/2/1999 | Moore | | | |
| | W | 5,878,141* | 3/2/1999 | Daly et al. | | | |
| | X | 5,878,140* | 3/2/1999 | Chaum | | | |
| | Y | 5,878,138* | 3/2/1999 | Yacobi | | | |
| | Z | 5,874,954* | 2/23/1999 | Kilmer et al. | | | |

RECEIVED

GROUP 3600

INFORMATION DISCLOSURE CITATION
 U.S. Patent Application of Zolotorev et al.
 Serial No.: 09/445,386

Page 2 of 6



| Exmner Initial | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|--------------------|----|-----------------|------------|---------------------|-------|-----------|------------------------------|
| <i>[Signature]</i> | A' | 5,872,844* | 2/16/1999 | Yacobi | | | |
| | B' | 5,870,476* | 2/9/1999 | Fischer | | | |
| | C' | 5,870,473* | 2/9/1999 | Boesch et al. | | | |
| | D' | 5,867,578* | 2/2/1999 | Brickell et al. | | | |
| | E' | 5,867,494* | 2/2/1999 | Krishnaswamy et al. | | | |
| | F' | 5,862,325* | 1/19/1999 | Reed et al. | | | |
| | G' | 5,862,223* | 1/19/1999 | Walker et al. | | | |
| | H' | 5,848,161* | 12/8/1998 | Luneau et al. | | | |
| | I' | 5,832,090* | 11/3/1998 | Raspopnik | | | |
| | J' | 5,832,089* | 11/3/1998 | Kravitz et al. | | | |
| | K' | 5,825,884* | 10/20/1998 | Zdepski et al. | | | |
| | L' | 5,825,880* | 10/20/1998 | Sudia et al. | | | |
| | M' | 5,812,670* | 9/22/1998 | Micali | | | |
| | N' | 5,806,063 | 9/8/1998 | Dickens | | | |
| | O' | 5,805,702* | 9/8/1998 | Curry et al. | | | |
| | P' | 5,799,087* | 8/25/1998 | Rosen | | | |
| | Q' | 5,799,086* | 8/25/1998 | Sudia | | | |
| | R' | 5,790,677* | 8/4/1998 | Fox et al. | | | |
| | S' | 5,790,675* | 8/4/1998 | Patarin | | | |
| | T' | 5,790,667* | 8/4/1998 | Omori et al. | | | |
| | U' | 5,781,631* | 7/14/1998 | Chaum | | | |
| | V' | 5,768,388 | 6/16/1998 | Goldwasser et al. | | | |
| | W' | 5,768,385* | 6/16/1998 | Simon | | | |
| | X' | 5,764,768* | 6/9/1998 | Spelman et al. | | | |
| | Y' | 5,761,311* | 6/2/1998 | Spelman et al. | | | |
| | Z' | 5,754,654* | 5/19/1998 | Hiroya et al. | | | |
| | A" | 5,734,901* | 3/31/1998 | Sidhu et al. | | | |
| | B" | 5,719,940* | 2/17/1998 | Ahn et al. | | | |
| | C" | 5,715,314* | 2/3/1998 | Payne et al. | | | |

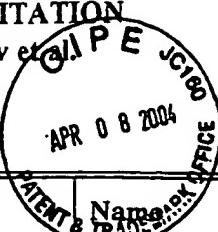
RECEIVED

APR 08 2004

GROUP 3600

INFORMATION DISCLOSURE CITATION
U.S. Patent Application of Zolotorev et al. P E
Serial No.: 09/445,386

Page 3 of 6

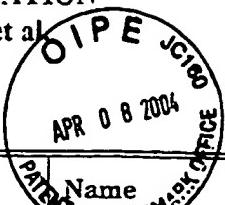


| Examiner Initial | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|--------------------|----|-----------------|------------|-----------------|-------|-----------|------------------------------|
| <i>[Signature]</i> | D* | 5,712,913* | 1/27/1998 | Chaum | | | |
| | E* | 5,708,714* | 1/13/1998 | Lopez | | | |
| | F* | 5,696,827* | 12/9/1997 | Brands | | | |
| | G* | 5,689,567* | 11/18/1997 | Miyauchi | | | |
| | H* | 5,677,955* | 10/14/1997 | Doggett et al. | | | |
| | I* | 5,671,285* | 9/23/1997 | Newman | | | |
| | J* | 5,668,878* | 9/16/1997 | Brands | | | |
| | K* | 5,666,420* | 9/9/1997 | Micali | | | |
| | L* | 5,659,616* | 8/19/1997 | Sudia | | | |
| | M* | 5,642,419* | 6/24/1997 | Rosen | | | |
| | N* | 5,638,447* | 6/10/1997 | Micali | | | |
| | O* | 5,638,445* | 6/10/1997 | Spelman et al. | | | |
| | P* | 5,633,929* | 5/27/1997 | Kaliski, Jr. | | | |
| | Q* | 5,629,982* | 5/13/1997 | Micali | | | |
| | R* | 5,627,893* | 5/6/1997 | Demytko | | | |
| | S* | 5,625,695* | 4/29/1997 | M'Raihi et al. | | | |
| | T* | 5,625,692* | 4/29/1997 | Herzberg et al. | | | |
| | U* | 5,615,269* | 3/25/1997 | Micali | | | |
| | V* | 5,610,982* | 3/11/1997 | Micali | | | |
| | W* | 5,606,617* | 2/25/1997 | Brands | | | |
| | X* | 5,604,805* | 2/18/1997 | Brands | | | |
| | Y* | 5,590,197* | 12/31/1996 | Chen et al. | | | |
| | Z* | 5,588,061* | 12/24/1996 | Ganesan et al. | | | |
| <i>[Signature]</i> | A* | 5,581,615* | 12/3/1996 | Stern | | | |
| | B* | 5,577,124* | 11/19/1996 | Anshel et al. | | | |
| | C* | 5,564,106* | 10/8/1996 | Puhl et al. | | | |
| | D* | 5,553,145* | 9/3/1996 | Micali | | | |
| <i>[Signature]</i> | E* | 5,537,475* | 7/16/1996 | Micali | | | |
| <i>[Signature]</i> | F* | 5,521,980* | 5/28/1996 | Brands | | | |

RECEIVED

APR 08 2004

GROUP 3600



| Exmner Initial | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|----------------|-----|-----------------|------------|-----------------|-------------------|-----------|------------------------------|
| <i>MFB</i> | G* | 5,511,121* | 4/23/1996 | Yacobi | | | |
| | H* | 5,502,764* | 3/26/1996 | Naccache | | | |
| | I* | 5,493,614* | 2/20/1996 | Chaum | | | |
| | J* | 5,485,520* | 1/16/1996 | Chaum et al. | | | |
| | K* | 5,475,763* | 12/12/1995 | Kaufman et al. | | | |
| | L* | 5,453,601* | 9/26/1995 | Rosen | | | |
| | M* | 5,448,639* | 9/5/1995 | Arazi | | | |
| | N* | 5,446,796* | 8/29/1995 | Ishiguro et al. | RECEIVED | | |
| | O* | 5,442,707* | 8/15/1995 | Miyaji et al. | APR 08 2004 | | |
| | P* | 5,434,919* | 7/18/1995 | Chaum | | | |
| | Q* | 5,420,926* | 5/30/1995 | Low et al. | GROUP 3600 | | |
| | R* | 5,373,558* | 12/13/1994 | Chaum | | | |
| | S* | 5,315,658* | 5/24/1994 | Micali | | | |
| | T* | 5,299,262* | 3/29/1994 | Brickell et al. | | | |
| | U* | 5,297,206* | 3/29/1994 | Orton | | | |
| | V* | 5,297,202* | 3/22/1994 | Kapp et al. | | | |
| | W* | 5,295,188* | 3/15/1994 | Wilson et al. | | | |
| | X* | 5,276,736* | 1/4/1994 | Chaum | | | |
| | Y* | 5,245,657* | 9/14/1993 | Sakurai | | | |
| | Z* | 5,231,666 | 7/27/1993 | Matyas | | | |
| | A** | 5,226,079* | 7/6/1993 | Holloway | | | |
| | B** | 5,224,162 | 6/29/1993 | Okamoto et al. | | | |
| | C** | 5,214,702* | 5/25/1993 | Fischer | | | |
| | D** | 5,140,634* | 8/18/1992 | Guillou et al. | | | |
| | E** | 5,131,039* | 7/14/1992 | Chaum | | | |
| | F** | 5,020,105* | 5/28/1991 | Rosen et al. | | | |
| | G** | 5,016,274* | 5/14/1991 | Micali et al. | | | |
| <i>MFB</i> | H** | 5,005,200* | 4/2/1991 | Fischer | | | |
| <i>MFB</i> | I** | 4,996,711* | 2/26/1991 | Chaum | | | |

INFORMATION DISCLOSURE CITATION
 U.S. Patent Application of Zolotorev et al.
 Serial No.: 09/445,386

Page 5 of 6



| Exmner Initial | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|----------------|-----|-----------------|------------|----------------|-------|-----------|------------------------------|
| <i>BB</i> | J** | 4,995,082* | 2/19/1991 | Schnorr | | | |
| | K** | 4,991,210* | 2/5/1991 | Chaum | | | |
| | L** | 4,987,593* | 1/22/1991 | Chaum | | | |
| | M** | 4,977,595 | 12/11/1990 | Ohta et al. | | | |
| . | N** | 4,969,189* | 11/6/1990 | Ohta et al. | | | |
| . | O** | 4,949,380 | 8/14/1990 | Chaum | | | |
| . | P** | 4,947,430* | 8/7/1990 | Chaum | | | |
| | Q** | 4,944,007* | 7/24/1990 | Austin | | | |
| | R** | 4,933,970* | 6/12/1990 | Shamir | | | |
| | S** | 4,926,480* | 5/15/1990 | Chaum | | | |
| | T** | 4,926,479* | 5/15/1990 | Goldwasser | | | |
| | U** | 4,914,698* | 4/3/1990 | Chaum | | | |
| | V** | 4,893,338* | 1/9/1990 | Pastor | | | |
| | W** | 4,881,264* | 11/14/1989 | Merkle | | | |
| | X** | 4,759,064 | 7/19/1988 | Chaum | | | |
| | Y** | 4,759,063 | 7/19/1988 | Chaum | | | |
| | Z** | 4,625,076* | 11/25/1986 | Okamoto et al. | | | |
| | A^ | 4,405,829 | 9/20/1983 | Rivest et al. | | | |
| | B^ | 4,393,269* | 7/12/1983 | Konheim et al. | | | |
| | C^ | 4,386,233* | 5/31/1983 | Smid et al. | | | |
| | D^ | 4,309,569 | 1/5/1982 | Merkle | | | |
| <i>BB</i> | D^ | 4,264,782* | 4/28/1981 | Konheim | | | |
| <i>BB</i> | E^ | 4,206,315 | 6/3/1980 | Matyas et al. | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

RECEIVED
 APR 08 2004
 GROUP 3600



Sheet 6 of 6

| Based on Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | Atty. Docket No. P-9902 MG | | Serial No. 09/445, 386 | | |
|--|---|---|--|-------------------------------|---------------------------|----------|----------------------------|
| | | | Applicant Zolotorev, OA et al. | | | | |
| | | | Filing Date December 6, 1999 | | Group 3621 | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner Initial | | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
| | | | | | | | |
| | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date | Country | Class | Subclass | Translation |
| | | | | | | | Yes |
| | | | | | | | No |
| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | A | David Chaum, "Blind Signatures for Untraceable Payments," in <u>Advanced Cryptology: Proceedings of the Crypto 82</u> , 1983, pp199-203 | | | | | |
| | B | David, Chaum, "Security Without Identification: Transaction Systems to Make Big Brother Obsolete," in <u>Communications of the ACM</u> , vo. 28, no. 10, October 1985. | | | | | |
| | C | D. Pointcheval and J. Stern, "Provably Secure Blind Signature Schemes," <u>Lecture notes in Comp. Sci.</u> , 1163, 1996, pp. 252-65 | | | | | |
| | D | A.J. Menez, P.C. Van Oorshot, and S.A. Vanstone, <u>Handbook of Applied Cryptography</u> , CRC Press, 1997, pp. 8, 145, 185, 285, 321, 348, 433. | | | | | |
| | E | Jon M. Peha and Khamitov, "Pay Cash: A secure Efficient Internet Payment System, Accepted for Publication in <u>Proc. Of Fifth International Conference on Electronic Commerce</u> , Oct. 2003, pages 1-10. | | | | | |
| EXAMINER | | | | DATE CONSIDERED <u>3/1/04</u> | | | |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |

P-9902.IDS filed.wpd

RECEIVED
APR 08 2004
GROUP 3600